

RAW SEQUENCE LISTING

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Application Serial Number: 10/677, 983

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/677,983

DATE: 10/18/2004

TIME: 09:24:30

Input Set : N:\Crf3\RULE60\10677983.raw.txt

Output Set: N:\CRF4\10182004\J677983.raw

1 <110> APPLICANT: FELDER, ROBIN A.
 2 JOSE, PEDRO
 3 <120> TITLE OF INVENTION: G PROTEIN-RELATED KINASE MUTANTS IN ESSENTIAL
 4 HYPERTENSION
 5 <130> FILE REFERENCE: FELDER 3.9-001 CONT
 6 <140> CURRENT APPLICATION NUMBER: US/10/677,983
 7 <141> CURRENT FILING DATE: 2003-10-02
 8 <150> PRIOR APPLICATION NUMBER: US/09/614,748
 9 <151> PRIOR FILING DATE: 2000-07-12
 10 <150> PRIOR APPLICATION NUMBER: PCT/US99/00663
 11 <151> PRIOR FILING DATE: 1999-01-12
 12 <150> PRIOR APPLICATION NUMBER: 60/071,199
 13 <151> PRIOR FILING DATE: 1998-01-12
 14 <150> PRIOR APPLICATION NUMBER: 60/098,279
 15 <151> PRIOR FILING DATE: 1998-08-28
 16 <160> NUMBER OF SEQ ID NOS: 34
 17 <170> SOFTWARE: PatentIn Ver. 2.1
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 578
 21 <212> TYPE: PRT
 22 <213> ORGANISM: Homo sapiens
 23 <400> SEQUENCE: 1
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 25 1 5 10 15
 26 Gln Gly Gly Tyr Gly Lys Lys Ser Gly Arg Ser Lys Lys Trp Lys Glu
 27 20 25 30
 28 Ile Leu Thr Leu Pro Pro Val Ser Gln Cys Ser Glu Leu Arg His Ser
 29 35 40 45
 30 Ile Glu Lys Asp Tyr Ser Ser Leu Cys Asp Lys Gln Pro Ile Gly Arg
 31 50 55 60
 32 Arg Leu Phe Arg Gln Phe Cys Asp Thr Lys Pro Thr Leu Lys Arg His
 33 65 70 75 80
 34 Ile Glu Phe Leu Asp Ala Val Ala Glu Tyr Glu Val Ala Asp Asp Glu
 35 85 90 95
 36 Asp Arg Ser Asp Cys Gly Leu Ser Ile Leu Asp Arg Phe Phe Asn Asp
 37 100 105 110
 38 Lys Leu Ala Ala Pro Leu Pro Glu Ile Pro Pro Asp Val Val Thr Glu
 39 115 120 125
 40 Cys Arg Leu Gly Leu Lys Glu Glu Asn Pro Ser Lys Lys Ala Phe Glu
 41 130 135 140
 42 Glu Cys Thr Arg Val Ala His Asn Tyr Leu Arg Gly Glu Pro Phe Glu
 43 145 150 155 160
 44 Glu Tyr Gln Glu Ser Ser Tyr Phe Ser Gln Phe Leu Gln Trp Lys Trp

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45	165	170	175
46	Leu Glu Arg Gln Pro Val Thr Lys Asn Thr Phe Arg His Tyr Arg Val		
47	180	185	190
48	Leu Gly Lys Gly Gly Phe Gly Glu Val Cys Ala Cys Gln Val Arg Ala		
49	195	200	205
50	Thr Gly Lys Met Tyr Ala Cys Lys Lys Leu Gln Lys Lys Arg Ile Lys		
51	210	215	220
52	Lys Arg Lys Gly Glu Ala Met Ala Leu Asn Glu Lys Arg Ile Leu Glu		
53	225	230	235
54	240	245	250
55	Lys Val Gln Ser Arg Phe Val Val Ser Leu Ala Tyr Ala Tyr Glu Thr		
56	255	260	265
57	Lys Asp Ala Leu Cys Leu Val Leu Thr Ile Met Asn Gly Gly Asp Leu		
58	270	275	280
59	285	290	295
60	Ala Val Phe Tyr Ala Ala Glu Leu Cys Cys Gly Leu Glu Asp Leu Gln		
61	300	305	310
62	315	320	325
63	Asp Asp Arg Gly His Ile Arg Ile Ser Asp Leu Gly Leu Ala Thr Glu		
64	330	335	340
65	Ile Pro Glu Gly Gln Arg Val Arg Gly Arg Val Gly Thr Val Gly Tyr		
66	345	350	355
67	Met Ala Pro Glu Val Val Asn Asn Glu Lys Tyr Thr Phe Ser Pro Asp		
68	365	370	375
69	Trp Trp Gly Leu Gly Cys Leu Ile Tyr Glu Met Ile Gln Gly His Ser		
70	380	385	390
71	395	400	405
72	Pro Phe Lys Lys Tyr Lys Glu Lys Val Lys Trp Glu Glu Val Asp Gln		
73	410	415	420
74	Arg Ile Lys Asn Asp Thr Glu Glu Tyr Ser Glu Lys Phe Ser Glu Asp		
75	425	430	435
76	Ala Lys Ser Ile Cys Arg Met Leu Leu Thr Lys Asn Pro Ser Lys Arg		
77	440	445	450
78	Leu Gly Cys Arg Gly Glu Gly Ala Ala Gly Val Lys Gln His Pro Val		
79	455	460	465
80	Phe Lys Asp Ile Asn Phe Arg Arg Leu Glu Ala Asn Met Leu Glu Pro		
81	470	475	480
82	Pro Phe Cys Pro Asp Pro His Ala Val Tyr Cys Lys Asp Val Leu Asp		
83	480	485	490
84	Ile Glu Gln Phe Ser Ala Val Lys Gly Ile Tyr Leu Asp Thr Ala Asp		
85	495	500	505
86	Glu Asp Phe Tyr Ala Arg Phe Ala Thr Gly Cys Val Ser Ile Pro Trp		
87	510	515	520
88	Gln Asn Glu Met Ile Glu Ser Gly Cys Phe Lys Asp Ile Asn Lys Ser		
89	525	530	535
90	Glu Ser Glu Glu Ala Leu Pro Leu Asp Leu Asp Lys Asn Ile His Thr		
91	540	545	550
92	Pro Val Ser Arg Pro Asn Arg Gly Phe Phe Tyr Arg Leu Phe Arg Arg		
93	555	560	565

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94 Gly Gly Cys Leu Thr Met Val Pro Ser Glu Lys Glu Val Glu Pro Lys
 95 565 570 575
 96 Gln Cys
 98 <210> SEQ ID NO: 2
 99 <211> LENGTH: 546
 100 <212> TYPE: PRT
 101 <213> ORGANISM: Homo sapiens
 102 <400> SEQUENCE: 2
 103 Met Glu Leu Glu Asn Ile Val Ala Asn Ser Leu Leu Leu Lys Ala Arg
 104 1 5 10 15
 105 Gln Glu Lys Asp Tyr Ser Ser Leu Cys Asp Lys Gln Pro Ile Gly Arg
 106 20 25 30
 107 Arg Leu Phe Arg Gln Phe Cys Asp Thr Lys Pro Ile Leu Lys Arg His
 108 35 40 45
 109 Ile Glu Phe Leu Asp Ala Val Ala Glu Tyr Glu Val Ala Asp Asp Glu
 110 50 55 60
 111 Asp Arg Ser Asp Cys Gly Leu Ser Ile Leu Asp Arg Phe Phe Asn Asp
 112 65 70 75 80
 113 Lys Leu Ala Ala Pro Leu Pro Glu Ile Pro Pro Asp Val Val Thr Glu
 114 85 90 95
 115 Cys Arg Leu Gly Leu Lys Glu Glu Asn Pro Ser Lys Lys Ala Phe Glu
 116 100 105 110
 117 Glu Cys Thr Arg Val Ala His Asn Tyr Leu Arg Gly Glu Pro Phe Glu
 118 115 120 125
 119 Glu Tyr Gln Glu Ser Ser Tyr Phe Ser Gln Phe Leu Gln Trp Lys Trp
 120 130 135 140
 121 Leu Glu Arg Gln Pro Val Thr Lys Asn Thr Phe Arg His Tyr Arg Val
 122 145 150 155 160
 123 Leu Gly Lys Gly Phe Gly Glu Val Cys Ala Cys Gln Val Arg Ala
 124 165 170 175
 125 Thr Gly Lys Met Tyr Ala Cys Lys Lys Leu Gln Lys Lys Arg Ile Lys
 126 180 185 190
 127 Lys Arg Lys Gly Glu Ala Met Ala Leu Asn Glu Lys Arg Ile Leu Glu
 128 195 200 205
 129 Lys Val Gln Ser Arg Phe Val Val Ser Leu Ala Tyr Ala Tyr Glu Thr
 130 210 215 220
 131 Lys Asp Ala Leu Cys Leu Val Leu Thr Ile Met Asn Gly Gly Asp Leu
 132 225 230 235 240
 133 Lys Phe His Ile Tyr Asn Leu Gly Asn Pro Gly Phe Asp Glu Gln Arg
 134 245 250 255
 135 Ala Val Phe Tyr Ala Ala Glu Leu Cys Cys Gly Leu Glu Asp Leu Gln
 136 260 265 270
 137 Arg Glu Arg Ile Val Tyr Arg Asp Leu Lys Pro Glu Asn Ile Leu Leu
 138 275 280 285
 139 Asp Asp Arg Gly His Ile Arg Ile Ser Asp Leu Gly Leu Ala Thr Glu
 140 290 295 300
 141 Ile Pro Glu Gly Gln Arg Val Arg Gly Arg Val Gly Thr Val Gly Tyr
 142 305 310 315 320
 143 Met Ala Pro Glu Val Val Asn Asn Glu Lys Tyr Thr Phe Ser Pro Asp

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144	325	330	335
145	Trp Trp Gly Leu Gly Cys Leu Ile Tyr Glu Met Ile Gln Gly His Ser		
146	340	345	350
147	Pro Phe Lys Lys Tyr Lys Glu Lys Val Lys Trp Glu Glu Val Asp Gln		
148	355	360	365
149	Arg Ile Lys Asn Asp Thr Glu Glu Tyr Ser Glu Lys Phe Ser Glu Asp		
150	370	375	380
151	Ala Lys Ser Ile Cys Arg Met Leu Leu Thr Lys Asn Pro Ser Lys Arg		
152	385	390	395
153	Leu Gly Cys Arg Gly Glu Gly Ala Ala Gly Val Lys Gln His Pro Val		
154	405	410	415
155	Phe Lys Asp Ile Asn Phe Arg Arg Leu Glu Ala Asn Met Leu Glu Pro		
156	420	425	430
157	Pro Phe Cys Pro Asp Pro His Ala Val Tyr Cys Lys Asp Val Leu Asp		
158	435	440	445
159	Ile Glu Gln Phe Ser Ala Val Lys Gly Ile Tyr Leu Asp Thr Ala Asp		
160	450	455	460
161	Glu Asp Phe Tyr Ala Arg Phe Ala Thr Gly Cys Val Ser Ile Pro Trp		
162	465	470	475
163	Gln Asn Glu Met Ile Glu Ser Gly Cys Phe Lys Asp Ile Asn Lys Ser		
164	485	490	495
165	Glu Ser Glu Glu Ala Leu Pro Leu Asp Leu Asp Lys Asn Ile His Thr		
166	500	505	510
167	Pro Val Ser Arg Pro Asn Arg Gly Phe Phe Tyr Arg Leu Phe Arg Arg		
168	515	520	525
169	Gly Gly Cys Leu Thr Met Val Pro Ser Glu Lys Glu Val Glu Pro Lys		
170	530	535	540
171	Gln Cys		
172	545		
174	<210> SEQ ID NO: 3		
175	<211> LENGTH: 532		
176	<212> TYPE: PRT		
177	<213> ORGANISM: Homo sapiens		
178	<400> SEQUENCE: 3		
179	Met Glu Leu Glu Asn Ile Val Ala Asn Ser Leu Leu Leu Lys Ala Arg		
180	1	5	10
181	Gln Gly Gly Tyr Gly Lys Lys Ser Gly Arg Ser Lys Lys Trp Lys Glu		
182	20	25	30
183	Ile Leu Thr Leu Pro Pro Val Ser Gln Cys Ser Glu Leu Arg His Ser		
184	35	40	45
185	Ile Glu Lys Asp Tyr Ser Ser Leu Cys Asp Lys Gln Pro Ile Gly Arg		
186	50	55	60
187	Arg Leu Phe Arg Gln Phe Cys Asp Thr Lys Pro Ile Leu Lys Arg His		
188	65	70	75
189	Ile Glu Phe Leu Asp Ala Val Ala Glu Tyr Glu Val Ala Asp Asp Glu		
190	85	90	95
191	Asp Arg Ser Asp Cys Gly Leu Ser Ile Leu Asp Arg Phe Phe Asn Asp		
192	100	105	110
193	Lys Leu Ala Ala Pro Leu Pro Glu Ile Pro Pro Asp Val Val Thr Glu		

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194	115	120	125
195	Cys Arg Leu Gly Leu Lys Glu Glu Asn Pro Ser Lys Lys Ala Phe Glu		
196	130	135	140
197	Glu Cys Thr Arg Val Ala His Asn Tyr Leu Arg Gly Glu Pro Phe Glu		
198	145	150	155
199	Glu Tyr Gln Glu Ser Ser Tyr Phe Ser Gln Phe Leu Gln Trp Lys Trp		160
200	165	170	175
201	Leu Glu Arg Gln Pro Val Ile Lys Asn Thr Phe Arg His Tyr Arg Val		
202	180	185	190
203	Leu Gly Lys Gly Gly Phe Gly Glu Val Cys Ala Cys Gln Val Arg Ala		
204	195	200	205
205	Thr Gly Lys Met Tyr Ala Cys Lys Lys Leu Gln Lys Lys Arg Ile Lys		
206	210	215	220
207	Lys Arg Lys Gly Glu Ala Met Ala Leu Asn Glu Lys Arg Ile Leu Glu		
208	225	230	235
209	Lys Val Gln Ser Arg Phe Val Val Ser Leu Ala Tyr Ala Tyr Glu Thr		240
210	245	250	255
211	Lys Asp Ala Leu Cys Leu Val Leu Thr Ile Met Asn Gly Gly Asp Leu		
212	260	265	270
213	Lys Phe His Ile Tyr Asn Leu Gly Asn Pro Gly Phe Asp Glu Gln Arg		
214	275	280	285
215	Ala Val Phe Tyr Ala Ala Glu Leu Cys Cys Gly Leu Glu Asp Leu Gln		
216	290	295	300
217	Arg Glu Arg Ile Val Tyr Arg Asp Leu Lys Pro Glu Asn Ile Leu Leu		
218	305	310	315
219	Asp Asp Arg Gly His Ile Arg Ile Ser Asp Leu Gly Leu Ala Thr Glu		320
220	325	330	335
221	Ile Pro Glu Gly Gln Arg Val Arg Gly Arg Val Gly Thr Val Gly Tyr		
222	340	345	350
223	Met Ala Pro Glu Val Val Asn Asn Glu Lys Tyr Thr Phe Ser Pro Asp		
224	355	360	365
225	Trp Trp Gly Leu Gly Cys Leu Ile Tyr Glu Met Ile Gln Gly His Ser		
226	370	375	380
227	Pro Phe Lys Lys Tyr Lys Glu Lys Val Lys Trp Glu Glu Val Asp Gln		
228	385	390	395
229	Arg Ile Lys Asn Asp Thr Glu Glu Tyr Ser Glu Lys Phe Ser Glu Asp		400
230	405	410	415
231	Ala Lys Ser Ile Cys Arg Met Leu Leu Thr Lys Asn Pro Ser Lys Arg		
232	420	425	430
233	Leu Gly Cys Arg Gly Glu Gly Ala Ala Gly Val Lys Gln His Pro Val		
234	435	440	445
235	Phe Lys Asp Ile Asn Phe Arg Arg Leu Glu Ala Asn Met Leu Glu Pro		
236	450	455	460
237	Pro Phe Cys Pro Asp Pro His Ala Val Tyr Cys Lys Asp Val Leu Asp		
238	465	470	475
239	Ile Glu Gln Phe Ser Ala Val Lys Gly Ile Tyr Leu Asp Thr Ala Asp		480
240	485	490	495
241	Glu Asp Phe Tyr Ala Arg Phe Ala Thr Gly Cys Val Ser Ile Pro Trp		
242	500	505	510

VERIFICATION SUMMARY

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Output Set: N:\CRF4\10182004\J677983.raw